

## **MODIS TECHNICAL TEAM MEETING**

**December 2, 1999**

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Francesco Bordi, Barbara Conboy, Wayne Esaias, Dorothy Hall, Chris Justice, Steve Kempner, Ed Masuoka, Harry Montgomery, Skip Reber, Dan Tarpley (NOAA), and Eric Vermote, with Deborah Howard recording the minutes.

### **1.0 SCHEDULE OF EVENTS**

AGU 1999 Fall Meeting San Francisco, CA	December 13–17, 1999
Terra Launch Vandenberg Air Force Base Lompoc, CA	December 16, 1999 10:33 a.m., PST (1:33 p.m., EST)
MODIS PI Processing Meeting* Building 33, Room E125	Tuesday, December 21, 1999 9:30 a.m.
IGARSS 2000 Abstracts Due	December 28, 1999
EOS-IWG Tucson, AZ	April 11–13, 2000
AGU 2000 Spring Meeting Washington, DC	May 30–June 3, 2000
IGARSS 2000 Honolulu, HI	July 24–28, 2000
IRS-2000 Saint Petersburg, Russia.	July 24–29, 2000
EOS-PM Launch	December 21, 2000

\*Please note: The date for the next PI Processing meeting has changed. The meeting will be held on Tuesday, December 21, 1999.

### **2.0 MINUTES OF THE MEETING**

#### **2.1 Instrument Report**

Harry Montgomery reported that Bill Barnes and Bruce Guenther are in California for the pre- post-ship review.

#### **2.2 Terra Launch**

Vince Salomonson confirmed that the Terra launch is scheduled for December 16, 1999 at 10:33 a.m., PST. The pre-launch conference will be held at 3 p.m. on

December 15 at the Rancho Santa Barbara Marriott in Buellton, CA. An RSVP is necessary if you are planning to attend (see the launch invitation). Bob Murphy will represent the MODIS team at the launch. Salomonson reported that the Terra Development of Minimum Success Criteria was settled. It includes that MODIS will demonstrate increased performance.

The proposed date for first light imaging (when we receive the first data from the system) is Launch + 35 days.

### **2.3 MODIS Level 1 Integration**

Bordi summarized status for the MODIS Level 1 software suite (see Attachment 1). A new version of Level 1B (PGE02), version 2.3.0, is anticipated by December 15, 1999. The launch version of Level 1A and Geolocation (PGE01) works fine and is running in GDAAC 5A Ops. There is some problem with ingesting Level 0 files from EDOS that may cause some loss of files in the initial period. The ECS team is working on fixing this problem and SDST has a fix scheduled for completion by December 15. Cloud mask (PGE03) and the L1A Subsetter (PGE71) are expected to be promoted to 5A Ops by December 10.

Three new L1A integration issues (#6, 7, and 8) refer to problems now occurring in the system that need to be drawn to the attention of ECS. Issue #6 is related to the main production machine (SPS06) at the DAAC, which is unstable. Issue #7 refers to a need to test the interface for retrospective ordering, and issue #8 is a question about when the multi-thread will be functional.

Justice advised that after launch, the MODIS Working Group on L1 Integration expand to include Level 1B update issues. This would be a forum for coordinating Discipline and Science concerns. The group strongly favored expanding the L1 group in this way. Esaias suggested the group include Eric Vermote, Bob Evans (via teleconference), and others who are testing Level 1B.

### **2.4 GDAAC**

Kempler briefly reviewed the GDAAC Notes for MODIS Technical Team Meeting dated 12/2/1999 (see Attachment 2). He said that the DAAC and MODAPS teams have been working well together on the J-Day testing. The J-day is an 8-day data test they plan to run twice and then keep exercising the system. Kempler said that ESDIS is pushing the GDAAC to bring the ECS system, 5A.02 version into Ops. The DAAC is somewhat resistant to this because there is now a stable system that works and because it is close to launch. Also, the DAAC has some problems with a processor that has been down for a few days and there are still some problems with 5A.02. Kempler stated that it would take some time to get all three 5A versions into DAAC Ops (5A.01, 02, and 03). He would like to develop a backup plan in case of problems with the system after launch.

Salomonson commented that with launch scheduled for December 16, there would be a 1-week safhold at the end of 1999 because of Y2K concerns. Esaias said that the safhold would not affect the schedule. Salomonson noted that according to the nominal manifest today, the next launch date might be January

23, 2000, if launch does not take place on December 16, 1999.

## **2.5 SDST**

Masuoka briefly reviewed the Launch Ready PGE Status dated 12/2/1999 (Attachment 3). He said that user services have been ordering products from the DAAC and SDST is tracking if the valids match. Multigranule ocean global maps have inserted to the DAAC and the DAAC has agreed to a workaround to pull data from the PDR server, if needed. Salomonson asked about some of the PGE's that looked like they had not passed testing on the status chart. Masuoka replied that some of these are being carried as post-launch PGE's, some have a new version that needs to be tested and formally checked, and some small changes from adjustments per tests are producing a lot of different versions. Masuoka also said that SDST needs some additional disk space in order to keep 8- and 16-day products online; that should improve production.

Masuoka said they have been preparing for office space for flight operations staff and visiting scientists.

Salomonson advised that the MODIS team plan for data representatives to meet regularly via teleconference after launch.

Reber commented that there was some ESDIS concern about whether the DAAC has adequate space for archiving all of the data that MODAPS would send if the Oceans group produces all the data it expects to generate. Kempler said he understood that the archive is sized right. Masuoka said he would work with Mike Moore (ESDIS) on this issue.

## **2.6 IGARSS 2000**

Salomonson lead a brief discussion on MODIS participation in IGARSS 2000, which is scheduled for July 24-28, 2000 at the Hilton Hawaiian Village in Honolulu, HI. Esaias and Justice confirmed that the MODIS Oceans and Land groups would be participating. Bruce Guenther, Bill Barnes, Bob Murphy and Vince Salomonson will also participate. Salomonson asked Esaias to check on including a presentation by Dennis Clark on MOBY. Concurrently, the International Radiation Symposium (IRS-2000) is being held in Russia, so a MODIS Atmosphere presentation is needed for IGARSS. Salomonson has sent out a notice to the SWAMP group to encourage members to provide "contributed" papers for the IGARSS 2000 meeting.

## **2.7 MAST**

Salomonson has signed emergency Procurement Requests (PR's) for FY 2000 funding and Conboy is walking the PR's through the necessary processing steps.

Conboy requested that Team members notify her if they have not yet received their Terra launch invitations. Invitees can register electronically by sending a response to the following e-mail address: [elvrsvp@mail.hq.nasa.gov](mailto:elvrsvp@mail.hq.nasa.gov). When sending an RSVP, type your name as it appears on your invitation. For example, "Mr. & Mrs. John Smith, plus 2" will be attending the Terra Launch or "Mr. & Mrs. John Smith, plus 2" will not be attending the launch. Conboy reminded

invitees to RSVP “no” if they are not going to attend the launch.

The group briefly discussed providing MODIS posters for a poster session at the pre-launch conference site. Subsequent to the Technical Team meeting, Conboy confirmed that SBRS would provide an exhibit for MODIS to be displayed at the Rancho Santa Barbara Marriott in Buellton, CA. Space is limited, so any additional exhibits/posters to be displayed need to be coordinated through Darla Webb of the EOS AM Project Office. Her e-mail address is: Darla.J.Webb.1@gsfc.nasa.gov.

Justice noted that December 10 is the deadline for adding MODIS-related Web sites to a map of such sites that he is preparing. Esaias said that the Oceans group is putting together a Web site with pointers to existing MODIS Ocean sites. The group briefly discussed how to enable comparisons of MODIS data to Landsat 7 and other data. Justice advised that such information be included in a Frequently Asked Questions (FAQs) page from the DAAC.

## **2.8 Oceans Group**

Esaias reported that the Oceans Group has some opportunities to upgrade a MOBY servicing cruise in February 2000 and to take the Thompson vessel from Hawaii to Seattle and down the coast in April 2000, if launch takes place in mid-December. He said that Ron Vogel is working on a map of the Ocean Web sites. Esaias commented that SDST is down to one Oceans person and Masuoka said that a new person has been hired who may be available to work with the Oceans group.

Esaias mentioned that a joint working group on ocean color is scheduled to take place in Japan. He asked whether there is a direct readout station in Japan. Salomonson referred him to Jim Dodge for that information. Subsequent to the Technical Team meeting, Michael King added that there is a direct readout (x-band) station in Japan. The contact person is Professor Yuzo Suga, Director of Advanced Earth Environmental Information Research Center, Department of Environmental Information Studies, Faculty of Environmental Studies, Hiroshima Institute of Technology, Hiroshima, Japan.

Tarpley asked whether there would be direct readout stations all over the world. Salomonson said that an x-band readout is necessary and there are not many of those. Daesoo Han is in charge of direct readout at GSFC.

## **3.0 ACTION ITEMS**

### **3.1 Action Items Carried Forward**

1. Kempler and Masuoka: Present to the Technical Team an agreed upon volume for MODIS Q/A data distribution.

Status: This item remains open.

2. Hohner, Fleig, and Masuoka: Include a space for MODIS early images on the MODIS home Web site. After launch, it would include downloadable early

images on the MODIS site and a link to the DAAC's for obtaining products and data. The TRMM and SeaWiFS Web pages and how they process and present images can be used as good examples.

Status: This item remains open.

3. Legg: Find out when and how NASA MODIS representatives will be integrated into the NOAA review process and report on status to the MODIS Technical Team. NOAA has agreed to have MODIS representatives serve on the NESDIS data product review boards (Product Oversight Panel). However, MODIS representatives have not yet been invited to participate in an advisory panel.

Status: This item remains open. At the October 20 MODIS Technical Team meeting, Dan Tarpley suggested asking Eric Vermote to represent the Land group, and asked Oceans and Atmosphere groups to suggest representatives. Esaias volunteered to represent Oceans. King said the Atmosphere group will be represented by Bill Ridgway (see Closed Action Items, #1, below).

4. Hohner and Howard: Develop a weekly MODIS news page linked to the MODIS home Web site. It should include hot items and reflect weekly progress.

Status: This item is in progress.

5. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

### **3.2 Closed Action Items**

1. King: Identify an Atmospheres representative to the NOAA Product Oversight Panels.

Status: This item is closed. The Atmosphere representative will be Bill Ridgway.